

CLAIMS

1. An air filter comprising:
a filter housing with air flowing through said filter housing in a first direction;
a pleated filter support operatively connected to said filter housing said pleated filter support having support members define a pleated shape; and
a filter at least partially supported by said support members.
2. The air filter of Claim 1 wherein said pleated filter support comprises a wire mesh.
3. The air filter of Claim 1 wherein said pleated filter support comprises a plurality of posts.
4. The air filter of Claim 1 wherein said pleated filter support comprises a plurality of ridges spaced about equally apart.
5. The air filter of Claim 1 wherein said pleated filter support comprises at least a partially annular form.
6. The air filter of Claim 1 wherein said filter comprises a low restriction filter paper.
7. The air filter of Claim 1 wherein said filter and said pleated filter support are operatively connected by welding.
8. The air filter of Claim 1 wherein said filter and said pleated filter support are operatively connected by an adhesive.
9. The air filter of Claim 1 including a filter seal operatively connected to said filter and said pleated filter support.

10. An air induction system comprising:
a flow body;
a filter housing in communication with said flow body with air flowing through said filter housing in a first direction;
a pleated filter support operatively connected to said filter housing said filter support having support members define a pleated shape; and
a filter at least partially supported by said support members.
11. The air induction system of Claim 10 wherein said pleated filter support comprises a wire mesh.
12. The air induction system of Claim 10 wherein said pleated filter support comprises at least a partially annular form.
13. The air induction system of Claim 10 wherein said filter comprises a low restriction filter paper.
14. The air induction system of Claim 10 wherein said filter and said pleated filter support are operatively connected by welding.
15. The air induction system of Claim 10 wherein said filter and said pleated filter support are operatively connected by an adhesive.
16. The air induction system of Claim 10 including a filter seal operatively connected to said filter and said pleated filter support.

17. A method of manufacturing an air filter comprising the steps of:
arranging a plurality of support members into pleats; and
adhering a filter to the pleats.
19. The method of manufacturing the filter of Claim 18 wherein the plurality of support members comprise a wire mesh.
20. The method of manufacturing the filter of Claim 18 including the step of sealing the filter to the support.